

SEQUENCE LISTING

<110> Alleman, Arthur
Barbet, Anthony

<120> MSP5 Antigen for the Diagnosis of Infection with Anaplasma phagocytophilum

<130> UF-387

<160> 4

<170> PatentIn version 3.2

<210> 1
<211> 742
<212> DNA
<213> Anaplasma phagocytophilum

<220>
<221> misc_feature
<222> (29)..(250)
<223> Coding sequence of processed MSP5 polypeptide

<220>
<221> misc_feature
<222> (29)..(610)
<223> 5' and 3' ends of cloned MSP5 insert

<400> 1		
aaataaggag gaatcaaacc	tggccttac tgggttctg gggattcgt atgttaacaa	60
aaagggata ttcatgtaca tgggtgctaa attaagttagt actgacactg tggttgaaca		120
agcgccgata ttggcttctt ttactgatct gataaatcaa gaaggtcagg ttgttagtag		180
cactgatttt gctggaaagc acatgttgct tatgttcggc ttttcttcat gcaagcacat		240
atgcctgcg gaacttggta tggtatcgca actttaaac aagttgggtg agactgctga		300
taaacttcaa gctgtttca taactattga tcccaaaaat gacactgtt aaggttaaa		360
ttagtatac aaagcccttg atagtcgaat tcagatgctg actggggatg aggaagttat		420
tcgcaatgt a gtgaataatt ataaggata ctaggtgag tctgatagt aaggagatat		480
taatcactca tcgttttgt acttgggtga tgccgacgga agatatgtat ggcattttgc		540
tcctgatttt gatgaatacg aaagtcaagt aggttagactt ttgatttcg ttaataagta		600
ccctacttct aagggcgaat tcgaagctta cgtagaacaa aaactcatct cagaagagga		660
tctgaatagc gccgtcgacc atcatcatca tcattattga gtttaaacgg tctccagctt		720
ggctgttttg gcggatgaga ga		742

<210> 2
<211> 74
<212> PRT
<213> Anaplasma phagocytophilum

<400> 2.

Thr Val Phe Leu Gly Tyr Ser Tyr Val Asn Lys Lys Gly Ile Phe Ser
1 5 10 15

Asp Met Gly Ala Lys Leu Ser Ser Thr Asp Thr Val Val Glu Gln Ala
20 25 30

Pro Ile Leu Ala Ser Phe Thr Asp Leu Ile Asn Gln Glu Gly Gln Val
35 40 45

Val Ser Ser Thr Asp Phe Ala Gly Lys His Met Leu Leu Met Phe Gly
50 55 60

Phe Ser Ser Cys Lys His Ile Cys Pro Ala
65 70

<210> 3
<211> 89
<212> PRT
<213> Anaplasma phagocytophilum

<400> 3

Met Lys Thr Phe Lys Thr Val Ser Asn Leu Leu Leu Val Ala Thr
1 5 10 15

Val Phe Leu Gly Tyr Ser Tyr Val Asn Lys Lys Gly Ile Phe Ser Asp
20 25 30

Met Gly Ala Lys Leu Ser Ser Thr Asp Thr Val Val Glu Gln Ala Pro
35 40 45

Ile Leu Ala Ser Phe Thr Asp Leu Ile Asn Gln Glu Gly Gln Val Val
50 55 60

Ser Ser Thr Asp Phe Ala Gly Lys His Met Leu Leu Met Phe Gly Phe
65 70 75 80

Ser Ser Cys Lys His Ile Cys Pro Ala
85

<210> 4
<211> 15
<212> PRT
<213> Anaplasma phagocytophilum

<220>
<221> MISC_FEATURE
<222> (1)..(15)
<223> MSP5 signal peptide

<400> 4

Met Lys Thr Phe Lys Thr Val Ser Asn Leu Leu Leu Leu Val Ala
1 5 10 15